AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the

application:

LISTING OF CLAIMS:

1. (previously presented): A computer system connected to a data communications

network, comprising:

a first computer;

a second, redundant computer that is independent of the first computer;

wherein the first computer is configured to match with the second computer by

comparing a first work result of the first computer with a second work result of the second

computer;

wherein receipt of any data from the data communications network is limited to the first

computer;

wherein transmission of any data to the data communications network is limited to the

second computer;

wherein at least an initial processing of the data received from the data communications

network is limited to the first computer; and

wherein the first computer is configured to convert, transmit to and store in the second

computer non-verified or non-verifiable data received by the first computer only in non-

processable form.

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2. (original): The computer system as claimed in claim 1, wherein the first computer is

configured to verify the received data in the first computer, and wherein the first computer is

configured to supply only verified data to the second computer in processable form.

3. (original): The computer system as claimed in claim 1, wherein the first computer and

the second computer are configured to independently verify the received data, and wherein only

matching verified data are stored in the second computer in processable form.

4. (original): The computer system as claimed in claim 1, further comprising:

a central data memory,

wherein direct access to internal data of the computer system contained in a central data

memory is limited to the second computer; and

wherein the first computer is configured to receive the internal data only upon request via

the second computer.

5. (original): The computer system as claimed in claim 1, further comprising:

an independent, redundant third computer; and

wherein the second computer is configured to match with the third computer by

comparing the second work result of the second computer with a third work result of the third

computer.

6. (previously presented): A method, comprising:

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in a first computer, classifying data received from a data communications network as

verified data and non-verified data, and producing a first work result representing the verified

data;

converting the non-verified data into a non-processable form by the first computer;

forwarding the verified data in processable form and the non-verified data in the non-

processable form from the first computer to a second computer;

in the second computer, independently verifying the verified data forwarded from the

first computer and producing a second work result based on the independent verification;

comparing the first work result with the second work result; and

if the first work result and the second work result match, storing the verified data in the

second computer,

wherein receipt of any data from the data communication network is limited to the first

computer and wherein transmission of any data to the data communications network is limited to

the second computer.

7. (canceled).

8. (original): The method of claim 6, wherein only the second computer directly accesses

internal data contained in a central data memory, and wherein the first computer indirectly

accesses the internal data only upon request via the second computer.

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9. (original): The method of claim 6, further comprising matching the second work result

of the second computer with a third work result of a third computer.

10. (new): The computer system as claimed in claim 1, wherein connection between the

first computer and the second computer forms an internal network of the computer system and

wherein the data communications network is an external network with respect to the computer

system.

11. (new): The computer system as claimed in claim 1, wherein the first computer

independently verifies the received data producing the first work result and wherein the second

computer independently verifies the received data producing the second work result.

12. (new): The computer system as claimed in claim 1, wherein data processed by the

first computer produces the first work result and wherein data processed by the second computer

produces the second work result.

13. (new): The computer system as claimed in claim 12, wherein the first and second

work results are produced by executing at least one of horizontal parity checks and parallel

balancing.

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14. (new): The computer system as claimed in claim 1, wherein said matching by the

first computer with the second computer is performed at an end of a program or when memory is

being accessed.

15. (new): The computer system as claimed in claim 1, wherein all of the initial

processing is performed by the first computer.

16. (new): The method as claimed in claim 6, wherein connection between the first

computer and the second computer forms an internal network of the computer system and

wherein the data communications network is an external network with respect to the computer

system.

17. (new): The method as claimed in claim 6, wherein the first computer independently

verifies the received data producing the first work result and wherein the second computer

independently verifies the received data producing the second work result.

18. (new): The method as claimed in claim 6, wherein data processed by the first

computer produces the first work result and wherein data processed by the second computer

produces the second work result.

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19. (new): The method as claimed in claim 6, wherein said matching by the first

computer with the second computer is performed at an end of a program or when memory is

being accessed.

20. (new): The method as claimed in claim 6, wherein all of the initial processing is

performed by the first computer.

21. (new): The method as claimed in claim 6, further comprising the second computer

matching with a redundant, independent third computer by comparing the second work result of

the second computer with a third work result of the third computer.

22. (new): The method as claimed in claim 21, wherein only the second and third

computers have access to internal data of the computer system and wherein the third computer is

configured to implement operation and monitoring of an automation system.